Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for generating a luminosity compensated image, the method comprising:

defining a luminosity texture having a plurality of luminosity texels; converting pixel data for an underlying image to an image texture having a plurality of image texels;

blending the image texture onto a target surface having a shape; and blending the luminosity texture onto the target surface, thereby generating luminosity compensated pixel data for the image; and

providing a user interface enabling a user to modify the shape of the target surface,

wherein defining the luminosity texture includes automatically updating one or more of the luminosity texels in response to a user modification of the shape of the target surface.

- 2. (Original) The method of claim 1, wherein the target surface comprises a polygon having a plurality of vertices, at least one of the vertices being associated with one of the image texels of the image texture.
 - 3. (Original) The method of claim 1, further comprising: providing the luminosity compensated pixel data to a display device.
- 4. (Original) The method of claim 3, wherein providing the luminosity compensated pixel data to the display device includes:

storing the luminosity compensated pixel data in a frame buffer; and

subsequently scanning out the frame buffer data, thereby providing data to the display device.

- 5. (Original) The method of claim 1, wherein each luminosity texel includes a scaling factor.
- 6. (Original) The method of claim 5, wherein blending the luminosity texture onto the target surface includes:

selecting one of the luminosity texels; and
multiplying a pixel value from the target surface by the scaling factor of the
selected luminosity texel.

7. (Original) The method of claim 5, wherein the scaling factors define a luminosity gradient to be applied across an area of the image.

8-9. (Canceled)

- 10. (Currently Amended) The method of claim 19, wherein automatically updating one or more of the luminosity texels includes computing a luminosity scaling factor based on a distance to a location on the target surface that maps to the texel.
- 11. (Original) The method of claim 10, wherein the distance is determined from a depth coordinate of the location on the target surface.
- 12. (Original) The method of claim 1, wherein the luminosity texture includes a low luminosity region.
- 13. (Original) The method of claim 12, wherein the low luminosity region corresponds to an overlap region in an image to be displayed using a plurality of display devices configured to display overlapping image elements.

- 14. (Original) The method of claim 1, wherein the luminosity texture includes dark texels for forming a visible pattern superimposed on the underlying image.
- 15. (Original) The method of claim 14, wherein the visible pattern corresponds to a message readable by a user.
 - 16. (Original) The method of claim 1, further comprising: providing a user interface enabling a user to define the luminosity texture.
- 17. (Original) The method of claim 16, wherein the user interface further enables the user to save the luminosity texture to a file.
- 18. (Original) The method of claim 17, wherein the user interface further enables the user to select a previously saved luminosity texture file to be applied.
- 19. (Original) The method of claim 16, wherein the user interface further enables the user to modify the luminosity texture.
- 20. (Original) The method of claim 1, wherein each luminosity texel includes an independent scaling factor for each of a plurality of color components.
- 21. (Original) The method of claim 20, wherein the plurality of color components includes a red component, a green component, and a blue component.
- 22. (Currently Amended) A graphics processing system comprising:
 a texture generation module configured to convert pixel data for an underlying image to an image texture having a plurality of image texture;

a texture memory configured to store the underlying image texture and a luminosity texture having a plurality of luminosity texels; and

a multistage texture blending module configured to blend each of the image texture and the luminosity texture onto a target surface having a shape, thereby generating luminosity-compensated pixel data for an image;

a user interface module configured to receive a user instruction modifying the shape of the target surface; and

a luminosity compensation module configured to automatically update the luminosity texture stored in the texture memory in response to the user instruction modifying the shape of the target surface.

- 23. (Original) The graphics processing system of claim 22, wherein the target surface comprises a polygon having a plurality of vertices, at least one of the vertices being associated with a texture coordinate of the image texture.
- 24. (Original) The graphics processing system of claim 22, further comprising a frame buffer configured to store the luminosity-compensated pixel data.
- 25. (Original) The graphics processing system of claim 22, further comprising scanout control logic configured to provide the luminosity-compensated pixel data to a display device.
- 26. (Original) The graphics processing system of claim 22, wherein each luminosity texel includes a scaling factor.

27-28. (Canceled)

29. (Currently Amended) The graphics processing system of claim <u>2228</u>, wherein the <u>luminositycompensation</u> <u>luminosity compensation</u> module is further configured to compute an updated value for a texel of the luminosity texture based on a distance to a location on the target surface that maps to the texel.

- 30. (Original) The graphics processing system of claim 29, wherein the distance is determined from a depth coordinate of the location on the target surface.
- 31. (Original) The graphics processing system of claim 22, wherein the luminosity texture includes a low luminosity region.
- 32. (Original) The graphics processing system of claim 31, wherein the low luminosity region corresponds to an overlap region in an image to be displayed using a plurality of display devices configured to display overlapping image elements.
- 33. (Original) The graphics processing system of claim 22, wherein the luminosity texture includes darkened texels forming a visible pattern.
- 34. (Original) The graphics processing system of claim 33, wherein the pattern corresponds to a message readable by a user.
- 35. (Original) The graphics processing system of claim 22, further comprising a user interface module configured to enable a user to define the luminosity texture.
- 36. (Currently Amended) A computer program product comprising: a computer readable medium encoded with program code, the program code including:

program code for defining a luminosity texture that includes a scaling factor for each of a plurality of luminosity texels;

program code for converting pixel color values of an underlying image to an image texture having a plurality of image texels;

program code for blending the image texture onto a surface having a shape; and

program code for blending the luminosity texture onto the target surface, thereby generating luminosity compensated pixel data for the image;

program code for providing a user interface enabling a user to modify the shape of the target surface; and

program code for updating the scaling factor for each luminosity texel based on the modified shape of the target surface.

- 37. (Original) The computer program product of claim 36, wherein the computer readable medium comprises a magnetic storage medium encoded with the program code.
- 38. (Original) The computer program product of claim 36, wherein the computer readable medium comprises an optical storage medium encoded with the program code.
- 39. (Original) The computer program product of claim 36, wherein the computer readable medium comprises a carrier signal encoded with the program code and adapted for transmission via a network.
- 40. (Original) The computer program product of claim 36, wherein the program code further includes program code for providing a user interface enabling a user to define the luminosity texture.

41-42. (Canceled)